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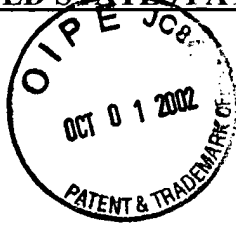
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Beachy et al.

Serial No: 09/708,964

Filed: November 8, 2000

For: Inhibitors of Hedgehog Signalling
Pathways, Compositions and Uses Related
Thereto



Attorney Docket No. JHUC-P04-010

Art Unit: 1616

Examiner: Badio, B.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Assistant Commissioner for Patents Washington, D.C. 20231 on the date indicated below:

September 27, 2002

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and of Mail Deposit

Patricia McKenney

Assistant Commissioner of Patents
Washington, D.C. 20231

RESPONSE UNDER 37 CFR 1.111

Sir:

This amendment is being filed in response to the outstanding Office Action, mailed June 27, 2002, in connection with the above application. Please enter the following amendments:

In the claims:

For the convenience of the Examiner, all claims being examined, whether or not amended, are presented below.

- Sub 1
1. (Amended) A method for inhibiting unwanted activation of a *hedgehog-patched* pathway in an animal, comprising administering to the animal a composition comprising a purified organic molecule having a molecular weight less than 750 amu in an amount sufficient to reduce the activation of the *hedgehog-patched* pathway in a cell, wherein the organic molecule interacts with *smoothened* and lessens the severity of a *hedgehog* gain-of-function, *patched* loss-of-function, or *smoothened* gain-of-function phenotype.